

1. A retractor assembly comprising:
  - a support;
  - a clamp selectively positionable at a desired location on the support;
  - a retractor shaft connected to the clamp extending away from the clamp and support, and having an end with a shaft axis extending through the end of the retractor shaft;
  - a connector connected at the end of the retractor shaft to the retractor shaft; and
  - a retractor blade connected to the connector by a stem, said stem retained to the shaft by the connector and angularly positionable relative to the shaft axis up and down intermediate a range of +/- twenty degrees relative to the shaft axis about a tilting axis.
2. The retractor assembly of claim 1 wherein the connector allows pivoting of the stem side to side about a rotation axis intermediate a range of about +/- 60 degrees relative to the shaft axis about a rotation axis..
3. The retractor assembly of claim 2 wherein the tilting axis is spaced from and perpendicular to the rotation axis.
4. The retractor assembly of claim 1 wherein the clamp grips the support when secured at the desired location on the support.
5. The retractor assembly of claim 1 wherein the support is a retractor support ring.

6. The retractor assembly of claim 1 wherein the retractor shaft is substantially linear and extends along the axis.
7. The retractor assembly of claim 1 wherein the connector further comprises a flange clevis connected to the retractor shaft which receives a pivot flange connected to the stem of the retractor blade, and said pivot flange is pivotable about a rotation axis, said rotation axis perpendicularly oriented to the shaft axis and tilting axis.
8. The retractor assembly of claim 7 further comprising a blade attachment boss and the pivot flange is connected to the blade attachment boss which connects to the stem to the retractor blade.
9. The retractor assembly of claim 8 wherein further comprising side slots in the blade attachment boss and the blade attachment boss is connected by a pin restrained by the side slots.
10. A retractor assembly comprising:
  - a support;
  - a clamp selectively positionable at a desired location on the support;

a retractor shaft connected to the clamp extending away from the clamp and support where the clamp is positioned on the support, said retractor shaft having an end with a shaft axis extending through the end of the retractor shaft;

a connector at the end of the retractor shaft, and

a retractor blade retained to the connector by a shoulder, said shoulder selectively positionable relative to the retractor shaft at an angle of about +/- sixty degrees relative to the shaft axis about a rotation axis.

11. The retractor assembly of claim 10 wherein the connector further comprises a slot limiting the angle of the retractor blade relative to the shaft axis.
12. The retractor assembly of claim 11 further comprising a flange clevis connected to the shaft containing the slot therein, and a pivot flange angularly positionable within the slot thereby allowing the angle of the shoulder to be selected
13. The retractor assembly of claim 10 further comprising a blade attachment boss connected to the pivot flange allowing about +/- twenty degrees of movement about a tilting axis with said tilting axis perpendicular to the rotation axis.
14. The retractor assembly of claim 10 wherein the retractor shaft is linear and the shaft axis extends along the retractor shaft.

15. The retractor assembly of claim 10 wherein the clamp has a locked and an unlocked position when in said locked position said clamp is secured to the support, and when in said unlocked position, said clamp is moveable along the support.
16. The retractor assembly of claim 15 wherein the retractor shaft is linear.
17. A retractor assembly comprising:
- a support;
  - a clamp selectively attachable to the support;
  - a retractor shaft connected to the clamp extending away from the clamp and support where the clamp is positioned on the support, said retractor shaft having a shaft axis extending through at least a portion of the retractor shaft;
  - a connector connected to the retractor shaft to the retractor shaft having a slot defined by a top, a bottom and side edges; and
  - a retractor blade connected by a stem to a hub, said hub retained in said slot of the connector, said hub angularly positionable from about +/- 60 degrees relative to the shaft axis about a rotation axis.
18. The retractor assembly of claim 17 wherein the retractor shaft is linear.
19. The retractor assembly of claim 1 wherein the slot is laterally positioned to allow side to side movement of the hub in the slot about the rotation axis.

20. The retractor assembly of claim 17 wherein the slot is intersected by the shaft axis.